USER MANUAL

GNORSAW® 250

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Original manual: Norwegian 525053

1. SAFETY INSTRUCTIONS

The European Union Machinery Directive 2006/42/EF, 2006/95/EF and EN 1870-5:2, requires manufacturers, importers, suppliers and dealers to ensure that machines are designed and built to avoid causing injury to users and others by accident or inappropriate work posture or strain. Machinery used at a workplace must - wherever practicable - be secured and pose no risk to operator health during installation, operation, cleaning or maintenance.

Persons who will use the equipment must receive the necessary information on operation, usage and precautions necessary for safe operation without risk to life or health.

The Directive applies to purchase, resale (wholesale, retail), leasing, short and extended hire, and hire-purchase.

Persons installing the machines at a workplace are required under the regulations to ensure that - wherever practicable - no aspect of the installation has rendered the machine unsafe or causes it to pose a hazard at any time during assembly, use, cleaning or maintenance.The Directive also covers assembly, electrical hookups, accessories, safety features and extractor fans/ ventilators. Make sure there is sufficient light and space before commencing installation.

The Norsaw 2003 comes complete with the safety features enabling the operator to comply with the regulations. Details on correct installation and use, combined with a guide to installation and proper adjustment of the safety systems, are described in this User Guide.It is an absolute requirement under the Directive that the employer and employee shall ensure themselves that all safety features are properly installed, adjusted and maintained and that personal protective gear is worn.

Repairs and maintenance must only be done by a competent person. Be sure to check that the power supply is off and the plug is out before starting a maintenance procedure. Instructions for maintenance procedures are included in this User Guide.

The machine operator must receive adequate training and instruction on the hazards of the machine and the precautions that must be observed and the actions that the law requires of him, or alternatively must work under the close supervision of a person thoroughly familiar and experienced with the machine who knows and understands the proper precautions to be taken.

Persons under the age of 18 years must take and pass an approved HSE course before using the machine at the workplace except when on a training course under adequate supervision and guidance.

The saw is ideal for use with wood, plywood and chipboard.

The saw must not be used on plasterboard, polysterene and tarred paper (for roofing).

WARNING: Safety equipment such as riving knife, blade guard and push sticks must not be removed, but have to be used.

2. GENERAL INSTRUCTIONS/DUST AND NOISE

2.1 General safety precautions:

- **IMPORTANT!** According to the CE-regulations an extension table should be used wherever possible.
- **IMPORTANT!** Note that the saw blade moves up and forward the entire length of the slot.
- Ensure that there is adequate room around the saw.
- For best stability, place saw on a level and even surface.
- Keep saw table, saw blade cover and area around saw free of off cuts and excessive sawdust.
- The working area should be well ventilated and a sawdust extractor or collector should be used.
- Use this machine in a well lit area and wear adequate hearing and eyesight protection.
- When sawing longer pieces of timber use an extension table or suitable support.
- Always lower top guard as close as possible to the work piece when sawing.
- Use push sticks when ripping small materials and when the distance between saw blade and rip fence is less than **120 mm** (approx. 5").
- When tilting the saw blade, the blade must always be lowered under the table and the motor should be switched off.
- Lower saw blade when not in use.
- Always use riving knife (See Section 6.2 for adjusting).
- Disconnect main cable when changing saw blade or performing other maintenance work.
- Use a carbide-tipped saw blade which is properly sharpened. Never use a cracked or deformed saw blade.
- The saw is equipped with a motor-brake.
- Ensure that the saw blade cover is closed after the saw blade has been cleaned and/or changed or if riving knife has been changed or adjusted.
- For ripping, always push saw blade to rear of slide travel and lock it in position, before rotating the table and the blade to the ripping position.
- The saw should not be exposed to rain, wet- or dampness. It should be stored in a dry environment.
- The saw must not be started close to gas or other explosives (electrical sparkles will occur by start/stop).
- IMPORTANT! The saw blade must run freely when starting the saw.

2.2 Main connection

The saw is delivered with cable and plug (230V). 110V machines only with cable. Supply cables must have ground protection and a conductor cross-section of 2,5 mm². Recommended length max. 25 m.

2.3 Dust and Noise

- Dust and noise measurements have been performed for work with the materials and saw blades for which the machine is intended (see section 1 Safety Instructions).

  Measurement uncertainty is related to local conditions and can vary with the saw blade/ transmission characteristics. Follow the maintenance instructions (see Section 6 Maintenance/Repair).

  Ear protection must be used, and a dust mask is recommended.

  For indoor use, the machine must be connected to an extractor that provides a minimum air speed of 30 m/s i.e. 1.8 kPa.

3. MOUNTING/POWER SUPPLY/TRANSPORT

3.1 Mounting the saw

The saw is delivered in a carton box with the table top downwards Fig. 1.

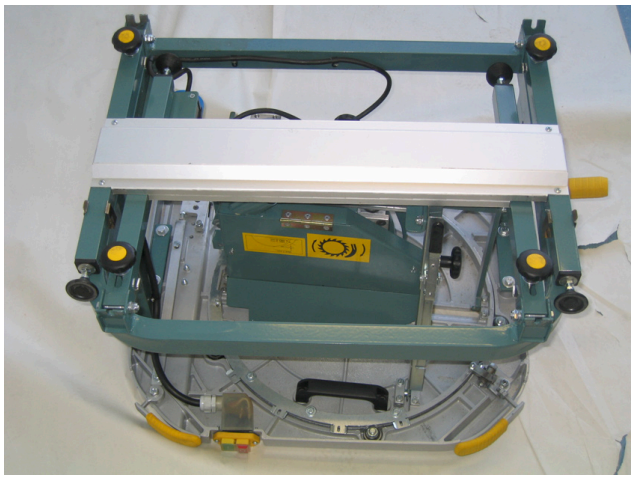


Fig. 1

Pull out/Unfold the legs Fig. 2 and tighten the locking wheels Fig. 3.

Fig. 2

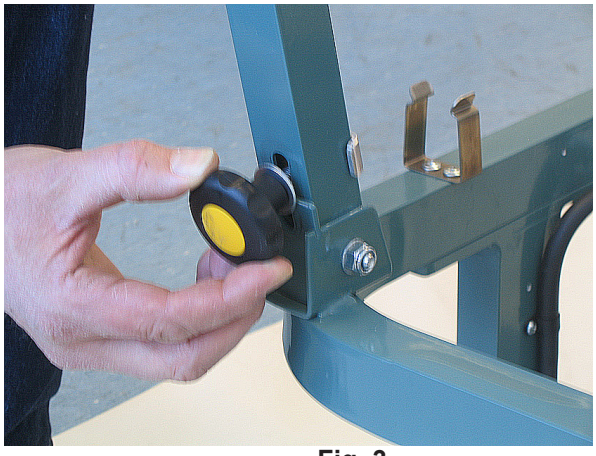
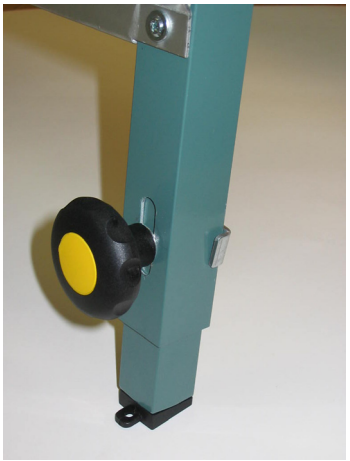


Fig. 3

For best stability place saw on a level, even surface. If the machine still needs to be level led, this can be achieved by adjusting one or more of the legs Fig. 4.

Fig. 4



Mount the top guard by pushing the tube to the bottom and make sure that the handle **A** is locked into position Fig. 5.

Fig. 5

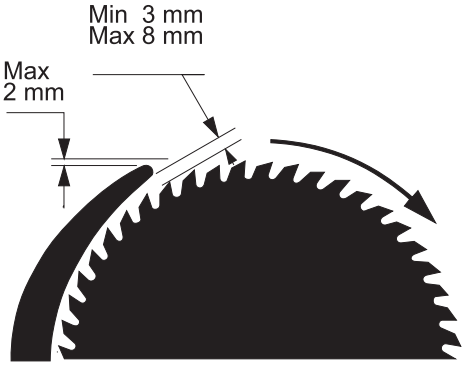


Fig. 6

Check saw blade and riving knife and assemble according to illustration Fig. 6.

Mount the fence by loosening the handle **A** and lead the nut underneath the fence into the slot of the aluminium profile. Lock lever Fig. 7.

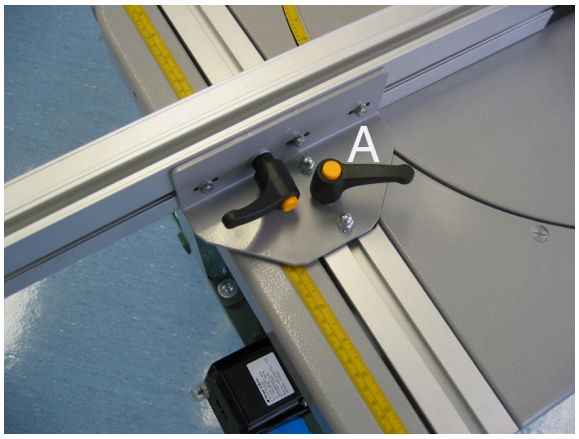


Fig. 7

3.2 Mount the push sticks

The push sticks should be placed on the (enclosed) hook at front of machine Fig. 8.

Fig. 8

3.3 Mounting the tables

The same table can be used on both sides of the saw.

Length: 1 m - Weight: 3 kg

3.3 Connecting main supply

Use an approved extension cord with ground protection/earth wire diam. 2,5 mm², max. length 25 m.

Tilt the switch and connect power supply cable.

NB! The switch should always stay in this position when the saw is in use Fig. 9.

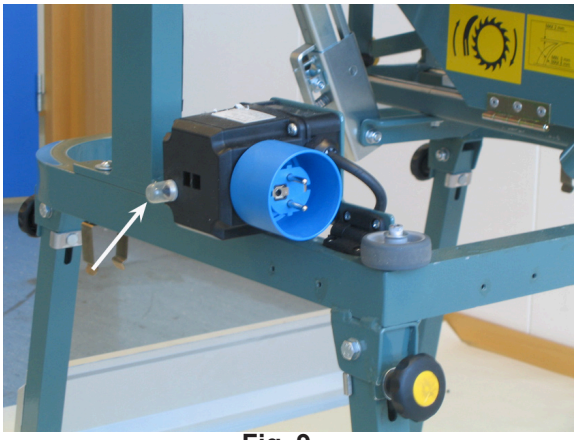


Fig. 9

3.4 Connecting of Dust Collector

A dust collector must always be connected to the top guard and the lower blade cover when using the saw indoors. The extractor should have a capacity of at least 234 m /h - 28 m/sec. The suction connector has a diam. of 38 mm. Remember to cut off the top of the nozzle on the top guard.

3.5 Transport - carrying-/wheel transport

When lifting the saw with a crane, place slings around the legs on either side of the machine Fig. 10.

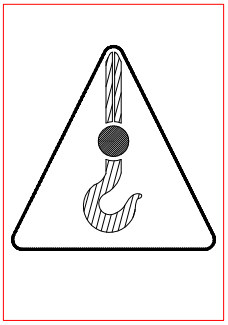
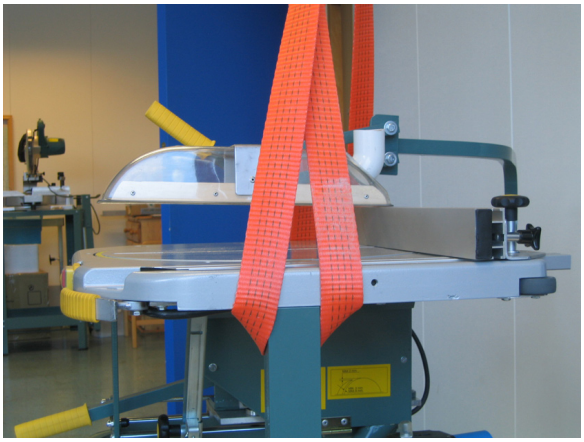


Fig. 10



1. Remove extension table (if any) and its locking handles, also remove the push sticks.

2. Remove the fence and make sure that the alu. profile in the table top doesn't stick out on either side.

3. Remove the top guard by loosening the handle and pull out.

4. Tilt the switch into transport position, lower the saw blade and lock it. Set the saw in ripping position 90° and lock it in the forward position (seen from the operating side).

5. Tilt the saw down on its wheels (right side) and loosen the locking wheels on the legs. Fold the front legs first and secure other legs in the clips. Remember to tighten the locking wheels.

6. You can now pull the saw by means of the handle or carry it by the black handle beneath the table top Fig. 11 and 12.

Fig. 11

Fig. 12

4. FUNCTIONS

4.1 On/off switch

On the front side of the saw there is a green ON- and a red STOP button. The switch has an overload protection and a low-volt cut out which will automatically stop the motor. If the overload protection comes into operation, wait until the motor cools down and restart.
Try to avoid this situation Fig. 13.
To reset the overload protection, press the button on the plug Fig. 9.

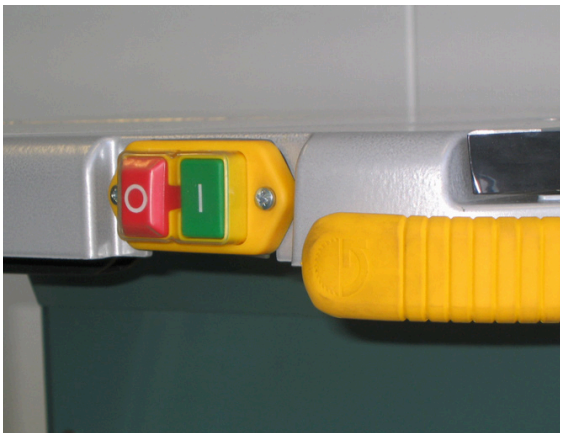


Fig. 13

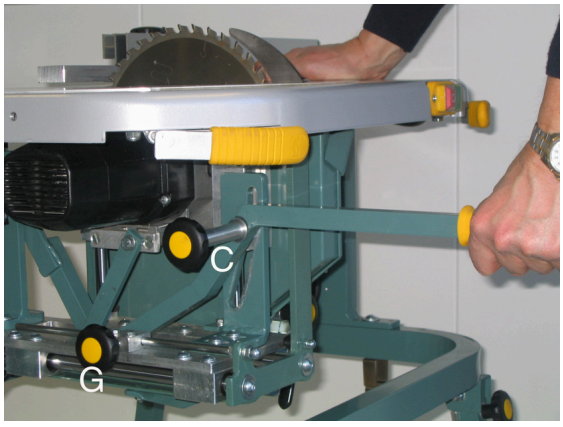


Fig. 14

4.2 Raising/lowering the saw blade

Loosen the lifting handle by turning the locking wheel **C**. The blade can then be lifted and lowered. It can be locked at any height by turning the wheel Fig. 14.

4.3 Pushing/pulling of saw blade

The blade can be pushed or pulled along the slot in the turntable Fig. 15 and 16. The slide mechanism can be locked with the locking wheel **G** below the table top Fig. 14.

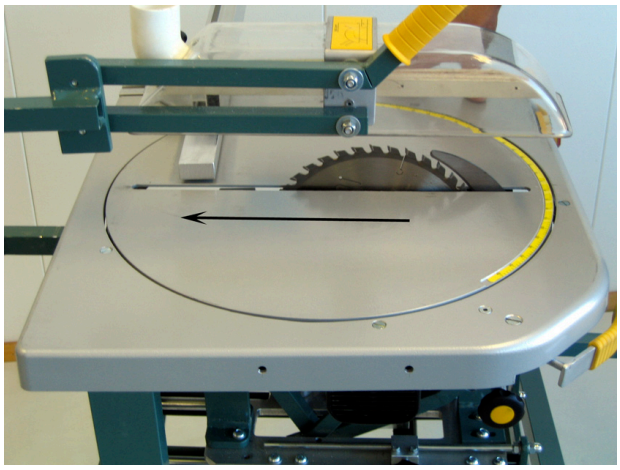


Fig. 15

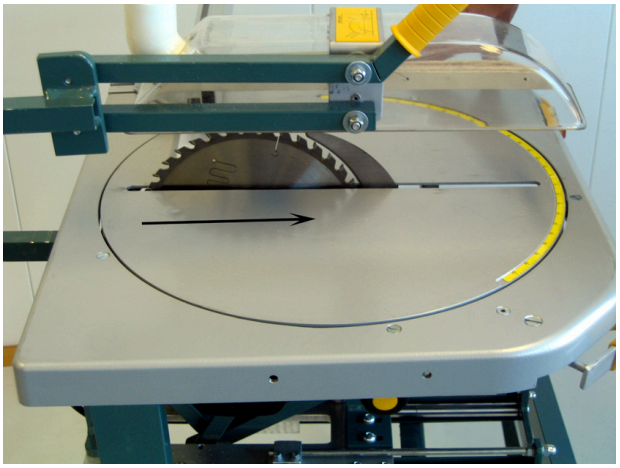


Fig. 16

4.4 Tilting of saw blade

Before tilting, the blade must be lowered. By loosening the locking wheel **D** and push the arm **E** for tilt securing (position handle), the blade can be tilted from -2° to - 47° Fig. 17.
Position and lock the blade in desired tilting angle. Set the degrees on the scale and tighten the locking wheel.

Attention: Locking wheel **D** must also be tightened in 0 and 45° (the pre-stop function).

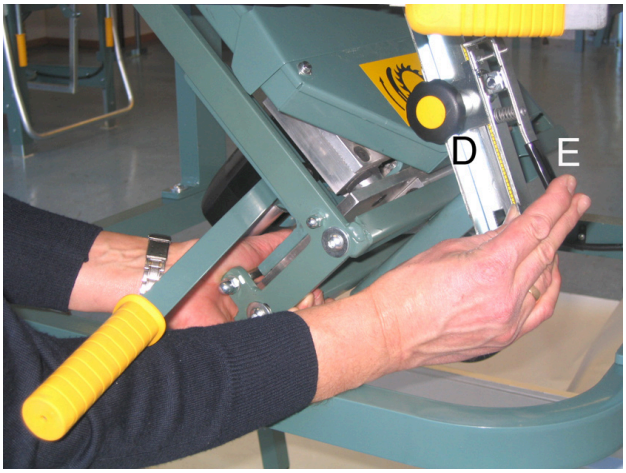


Fig. 17

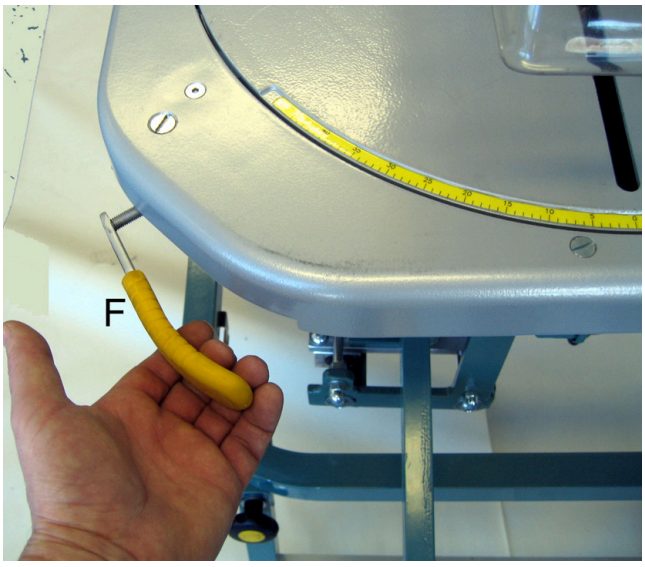


Fig. 18

4.5 Rotating the turntable

The turntable can be rotated both ways and set at the desired cutting angle. The turntable is released by pulling the locking handle **F** to the left Fig. 18. Turn the turntable by gripping the lifting handle and set the saw blade in desired cutting position (read on the table). Lock the turntable by pushing the locking handle to the right. For mitre cutting of the most used angles (90° - 45° - 22,5° and 0°), there is a pre-stop function. The turntable **must** be locked by use of the handle **F** (including the pre-stop positions).
NB! When setting the blade the motor has to be turned off. This is to avoid damage to the saw or the operator.

5. OPERATION

5.1 Cross cutting

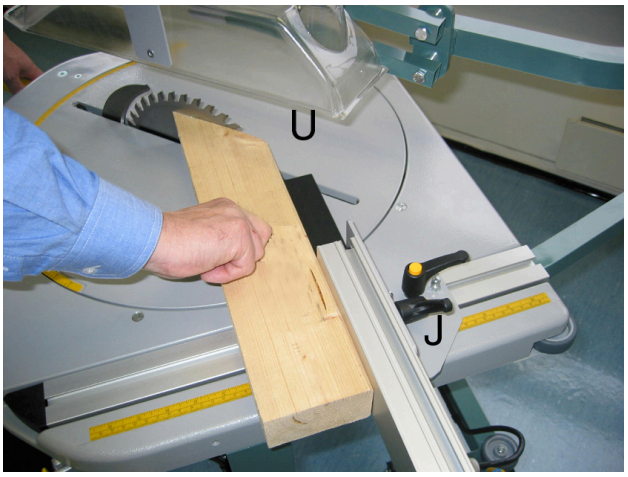
* Set the desired cutting angle - Section 4.4. and 4.5.

* Adjust the position of the fence and lock with locking handle **J** Fig. 19.

* Set the upper guard **U** approx. **5 mm** above the height of material.

* Lift and (gently) push the blade if you need to increase the cutting width/length.

Fig. 19



5.2 Ripping

Turn the blade to the **90°** mark so it is parallel to the fence. Lock the turn table as in Section 4.5 Fig 18. Push the saw blade forward to the end position and lock with wheel **G.** Fig. 20.

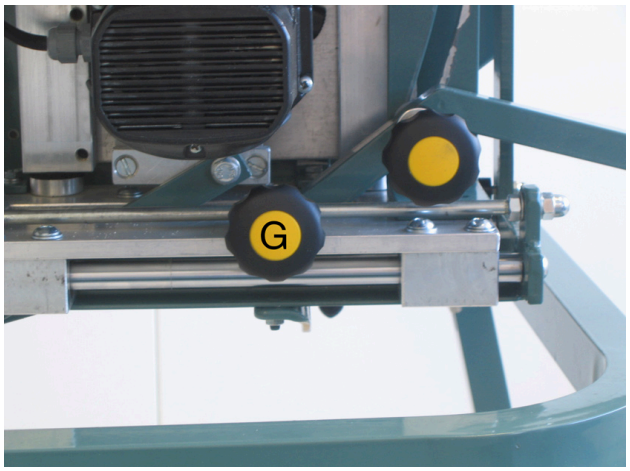


Fig. 20

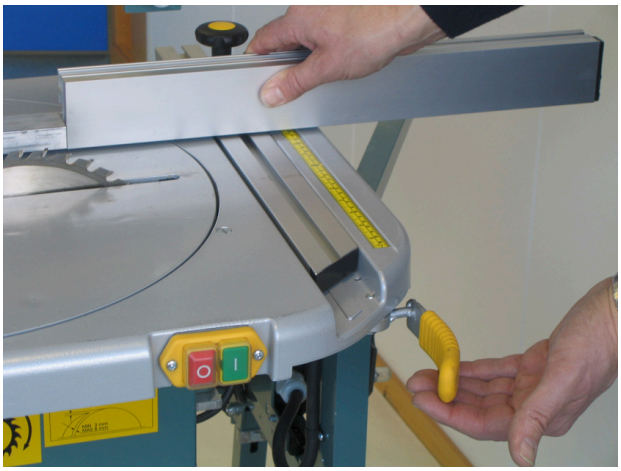


Fig. 21

Tilt the saw blade to the desired angle as in Section 4.4.

Position the blade slightly higher than the thickness of timber you are going to rip, and then lock in place Fig. 14.

Set the fence for the desired ripping width and lock with the handle Fig. 21.

Start the motor and feed the material through the blade along the fence Fig. 22.

Use push sticks when the distance between fence and saw blade is ≤ 120 mm.

NB! The riving knife is always to be used when ripping. Make sure that it is correctly fitted and adjusted see Fig. 6, Section 6.2 for settings.

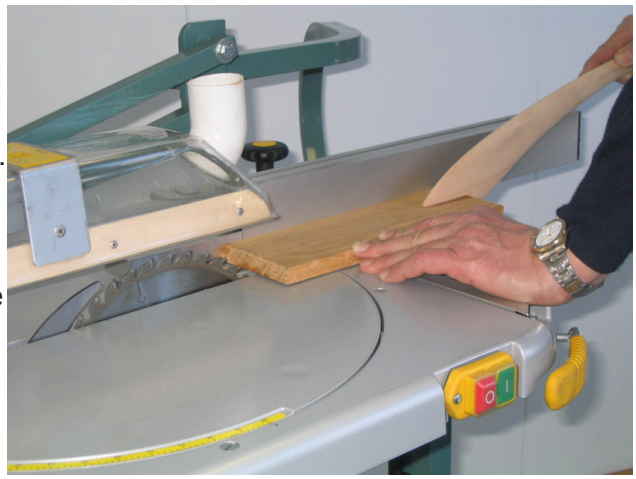


Fig. 22

Push gently (reduce the pressure if the motor is working hard) to achieve a clean, neat cut.

5.3 Compound angle cutting

Set the turn table at the desired cutting angle. Section 4.5.

Tilt the saw blade to the desired angle. Section 4.4.

Adjust the fence Section 5.2 and lift the saw blade to complete the cutting operation Fig. 23.

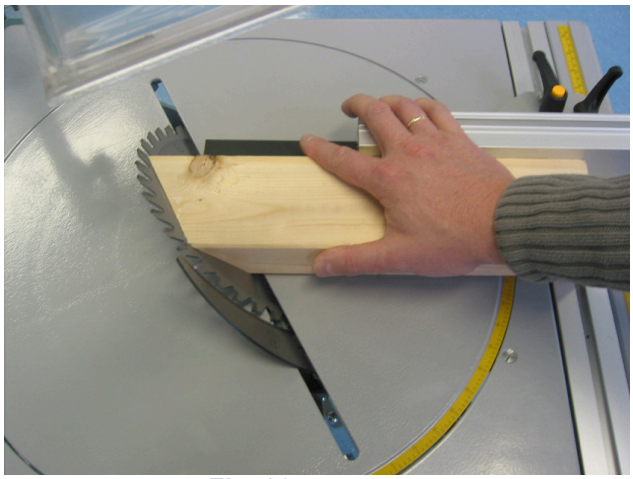


Fig. 23

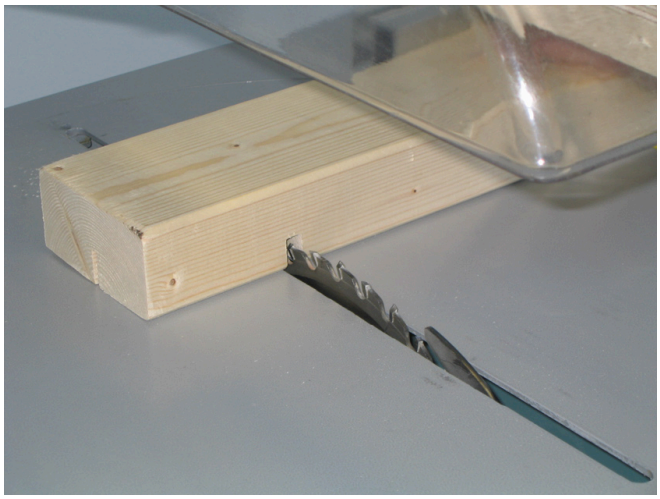


Fig. 24

5.4 Cutting grooves

Set the turn table at 0° (square to the fence) and lock it in position.

Set the saw blade at the desired height (depth of groove) and adjust the fence to the correct position.

Place the material against the fence. Feed material along the fence and repeat the operation until the groove is the desired width Fig. 24.

6. MAINTENANCE/REPAIR

CAUTION! MAKE SURE POWER SUPPLY IS DISCONNECTED WHILE PERFORMING MAINTENANCE OPERATIONS. A minimum of maintenance is required to ensure satisfactory performance and a long service life.

- Lubricate moving parts at regular intervals.
- Check all screws and nuts regularly for tightness.
- Top guard should be clean. If damaged it should be replaced.
- Keep saw and saw blade cover free from sawdust. Pay particular attention to motor ventilation openings and cooling fins.
- Keep saw blade clean and in order. Replace blade if there are any cracks or missing teeth. Remove resin deposits with a suitable cleaning fluid.
- Repairs to electric parts must be carried out by qualified electricians only!
- The motor brushes must be checked evenly and replaced when necessary.
- Do NOT clean the motor with dissolvents.

6.1 Replacing saw blade

- Lower the blade and lock it in the forward position.
- Open the cover by loosening the two screws and the nut at the front of the guard Fig. 25.
- Use tools (13 mm spanner) supplied with saw Fig. 26 to remove saw blade. Loosen the spindle screw whilst blocking the flange with the supplied tool.
  Remove outer flange and saw blade. **NB!** The spindle screw is left-hand thread.
- The saw blade is mounted the opposite way. Be sure to close cover when finished.
  The saw is only to be used with saw blades of 250 mm diameter with a bore diameter of 30 mm, kerf 3,2 mm and a thickness of 2,2 mm. Select a blade with the correct number of teeth suitable for the work you are performing.

Fig. 25

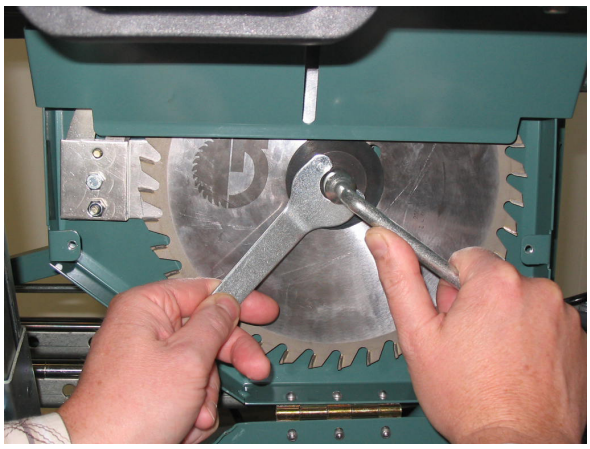


Fig. 26

6.2 Replacing and adjusting riving knife

- Pull the plug and lower the blade cover as in Section 6.1.
- Loosen the screws and nut Fig. 27 and remove or reposition the riving knife (by replacing riving knife).
- The riving knife is mounted using same method in reverse.

  The thickness of the riving knife should be the nearest thickness but slightly less than the kerf width of the saw blade. Adjust the riving knife as shown in Fig. 6 and check that screws and nut are tight. Be sure to close the saw blade cover when finished.

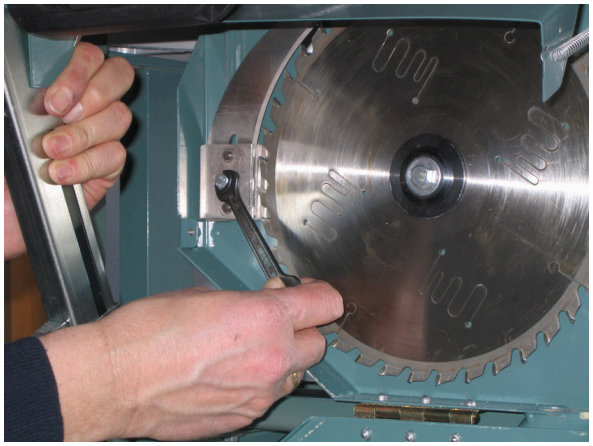


Fig. 27

6.3 Adjusting turn table locking

- Set the locking handle in neutral position.
- Loosen lock nut **P.**
- Screw the set screw **0** against the turn table until sufficient locking is achieved whilst the locking handle is turned to the locking position.
- Tighten the lock nut **P** Fig. 28.

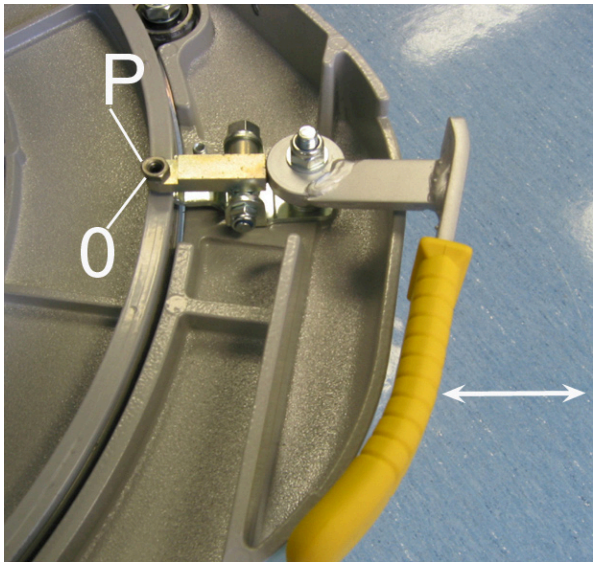


Fig. 28

6.4 Testing of stop function

The saw blade will stop less than 10 seconds after pushing the red STOP button. This should be checked regularly.

6.5 Repair

Routines at repair:

* The machine must only be repaired by qualified electricians or authorised service workshops.

Testing the brakes:

* The brake for the saw blade rotation should be tested regularly. The stop-time must be max. 10 sec. Start/stop the saw 10 times in a row and check the stop-time.

7. TROUBLESHOOTING

The saw does not start:

* check the power supply
* do not use the cable with several machines at the same time
* check that the cable is not too long, and that the cross-section is not too small
* contact an electrician

The saw vibrates and is weak:

* check that the blade box under the bench does not contain chips and sawdust
* check that the toothed belt is whole and undamaged
* check the spindle
* check the blade for eccentricity, and that all the teeth are whole and sharp

The saw blade is heavy to lift and does not go down completely:

* check that nothing is stuck in the blade box
* check that the bearings in the universal joint and the movable glide rings at either end of the spindle are not stuck

8. WARRANTY SERVICE

Notwithstanding any statutory requirements, Ernex AS provide warranty in accordance with the legislation of the customer‘s own country of residence, but in all cases for a minimum of 3 years, except for electrical parts which still has a 1-year warranty commencing from the date on which the machine is sold to the end user. Ernex AS/The importer promise to repair, or at our option, replace with like grade and quality any product determined to be faulty due to the failure of parts, material or workmanship.

The warranty covers defects in material and/or workmanship only. When making a claim under the warranty, proof of purchase bearing the original date of purchase must be submitted. The repairs under warranty may only be carried out by Ernex AS, or by authorized Ernex warranty service agents or the importer.

The warranty will not apply in cases of:

- incorrect use, overloading of the machine or fitting non-approved accessories

- use of force, damage caused by external influences, or foreign bodies

- damage caused by non-observance of the instructions for use, such as connection to an unsuitable mains supply or voltage or non-compliance with the installation instructions

- normal wear and tear

The warranty also does not cover machines which have been partially or completely dismantled.

9. TECHNICAL DATA

Gjerde® 250

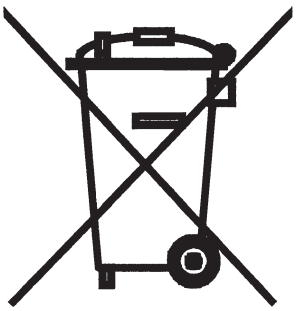
Manufacturer:	Ernex AS, Norway.
Model:	Norsaw 250.
Table size:	670 mm x 565 mm.
Height:	860 mm.
Transport height:	430 mm.
Weight:	37 kg.
Saw blade:	Carbide tipped, Z=40 Diam. 250 mm. Bore diam. 30 mm. Kerf width 3,2 mm.
Riving knife:	Hardened steel; std. thickness 2,5 mm.
Cutting height:	80 mm 90° (vertical). 60 mm 45° (tilted)
Slide/push travel:	130 mm
Max. cutting width:	310 mm
Tilt range (stepless):	-2° - +47°
Turn table rotation:	0-135° (+ 90° - -45°)
Motor w/Brake:	1.6 kW 110 V/50 Hz 1-phase. 1.8 kW 230 V/50 Hz 1-phase.
Spindle speed:	4.500 rpm.
Peripheral speed:	59 mps.
Cable diam:	1-phase 3 x 2.5 mm^2.
Fuse:	16A time-lag.
Switch:	On/Off with overload and low-volt cutout
Noise as per 2006/42/EC:	No-load 94 dB Under load 92,4 dB.
CE-certification:	Certified by Dansk Teknologisk Institut, Aarhus. Identifikasjonsnr: ID-No.: 0396 Approval certificate No.: TI-09-MD-0308.

10. STANDARD EQUIPMENT

- Top guard
- Carbide tipped saw blade
- Push sticks

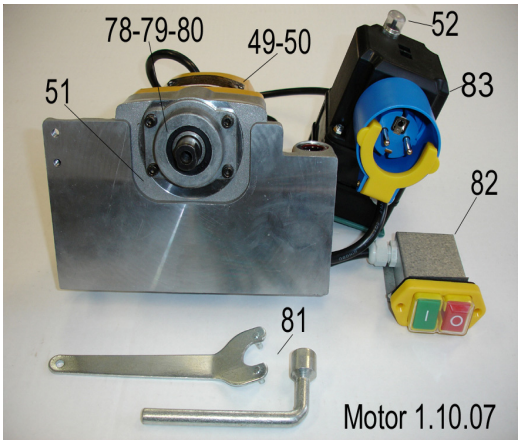
OPTIONAL EQUIPMENT

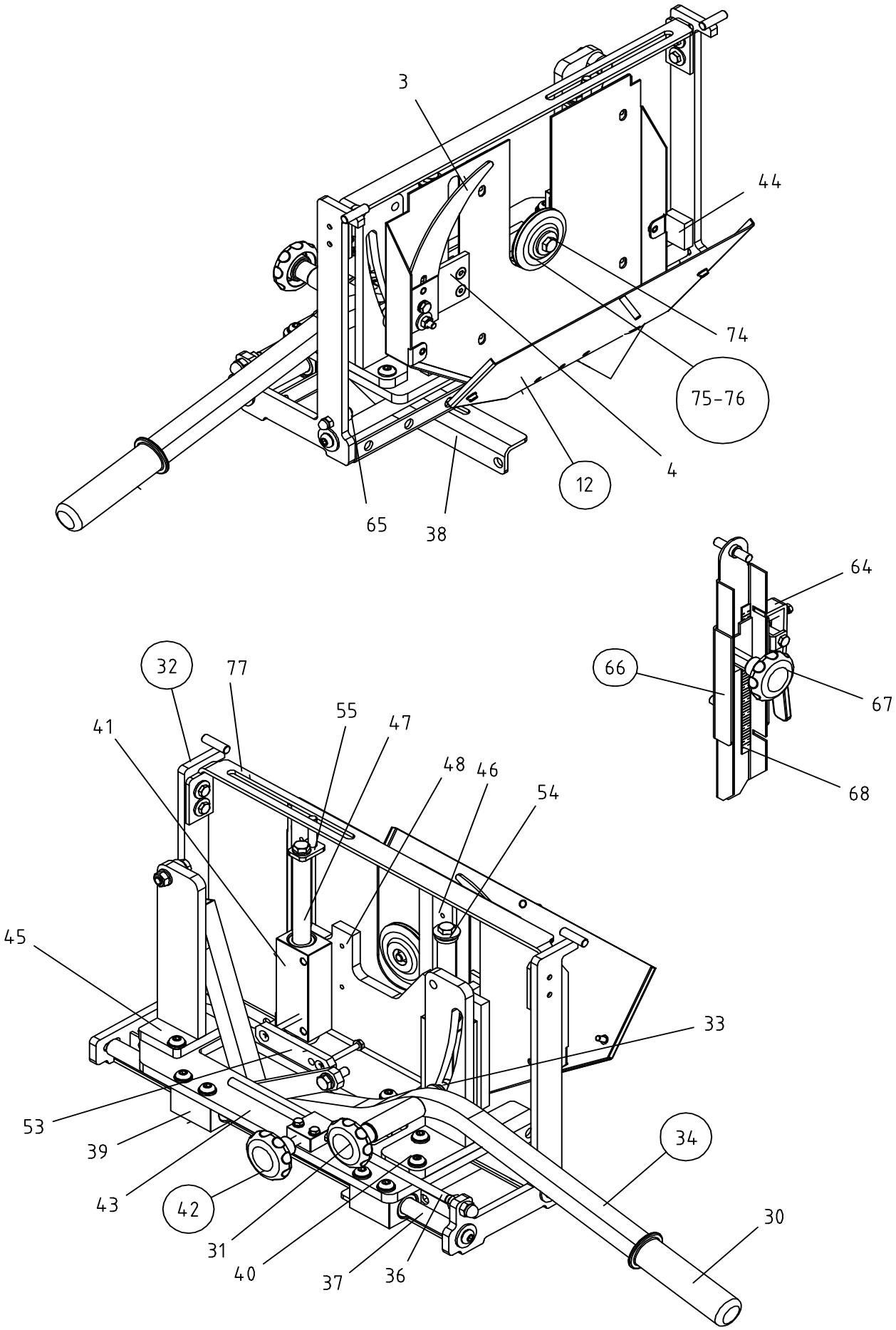
- Extension table, Aluminium 1m long
- Wheels



Ernex AS Spare Part List Gjerde 250

Pos.	Art.No.	Text
1	725 179	Sawtable top
2	725 178	Turntable w/scale
3	725 019	Riving knife 2.5mm w/clamp
4	725 216	Bracket f/riving knife compl.
5	725 183	Plastic hood w/bracket
6	725 206	Adjusting bar w/handle
7	725 182	Guard arm w/handle
8	725 186	Upper guard compl.
9	725 011	Leg f/frame (1)
10	745 441	Spring stud
11	725 155	Locking handle M8x15
12	725 062	Blade cover compl.
13	725 030	Bottom frame
14	725 207	Foot (set 4) adj.
15	725 208	Rear leg-pair
16	725 209	Locking wheel
17	725 210	Wheel set compl. (2)
18	725 089	Switch 230V/1-phase
19	725 212	Gliding blocks f/alu.profile (3)
20	725 211	Front leg-pair
21	720 075	Plastic sleeve 25x5 (93-99)
22	725 213	Short fence w/extension
23	725 130	Angle fence compl.
24	725 214	Angleplate f/fence
25	725 025	Measure
26	725 027	Plug f/alu.profile (table top)
27	725 121	Alu.profile w/plugs
28	725 024	Tilting scale f/turntable
29	725 151	Extension, plastic
30	720 073	Plastic sleeve Ø22 f/elev.arm (99-)
31	725 101	Locking wheel f/height adj.
32	725 038	Suspension f/axles
33	745 033	Elevation slider
34	725 217	Elevation arm compl.
35	707 019	Hook f/push stick
36	725 043	Locking bar f/push
37	725 023	Tracking axle L=430mm
38	725 144	Angle f/tilting bar
39	725 108	Ballbearing housing, short 50mm
40	725 081	Locking bracket f/lift
41	725 107	Ballbearing housing, long 100mm
42	725 218	Locking device f/push
43	725 109	Bottom plate
44	725 219	End cushion f/push
45	725 077	Bracket f/suspension of lift
46	725 059	Bracket f/blade cover
47	725 022	Tracking axle L=208mm
48	725 110	Plate f/motor suspension
49	725 254	Brushes compl. (2) (1/3-07)
50	760 043	Brushes compl. (2)
51	725 090	Motor 230V/1-phase w/o switch
52	725 092	Motor protection 8Amp
53	725 040	Bracket f/motor lift
54	725 220	End cushion f/elev.
55	725 240	Guide pin
56	725 074	Locking handle f/alu.profile
57	725 073	Locking device f/alu.profile compl.
58	725 020	Carrying handle
59	725 120	Pre-stop plate compl.
60	725 065	Hinge plate compl.
61	725 124	Bracket f/guard arm
62	725 221	Locking f/turntable compl.
63	725 222	Ballbearing set f/turntable (5)
64	725 134	Locking handle f/tilting
65	725 156	Rubber cap
66	725 223	Lock f/tilting compl.
67	725 103	Locking wheel f/tilting
68	725 141	Tilting scale
69	725 224	Switch plate w/hinge
70	725 249	Foot, telescopic
71	725 228	Alu. profile
72	725 241	Plug f/alu. profile
73	725 250	Bearings f/fence
74	760 017	Screw M8x25 lefthanded
75	725 247	Clamps
76	725 255	Clamps (1/3-07)
77	725 236	Rail
78	760 019	Arbor/Gear compl.
79	725 253	Arbor/Gear compl. (03-07-)
80	725 261	Arbor/Gear compl. (10/07-)
81	725 258	Tools f/motor (03/07-)
82	725 245	Start/stop panel
83	725 305	Relay f/switch (725089)
84	725 174	Motor w/switch 230V/1
145	745 099	Push stick

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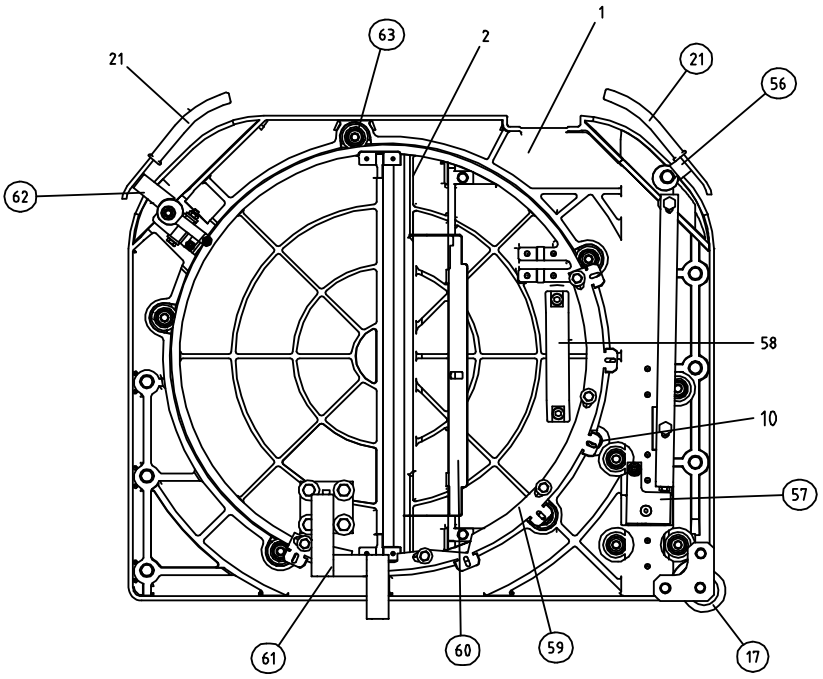
2011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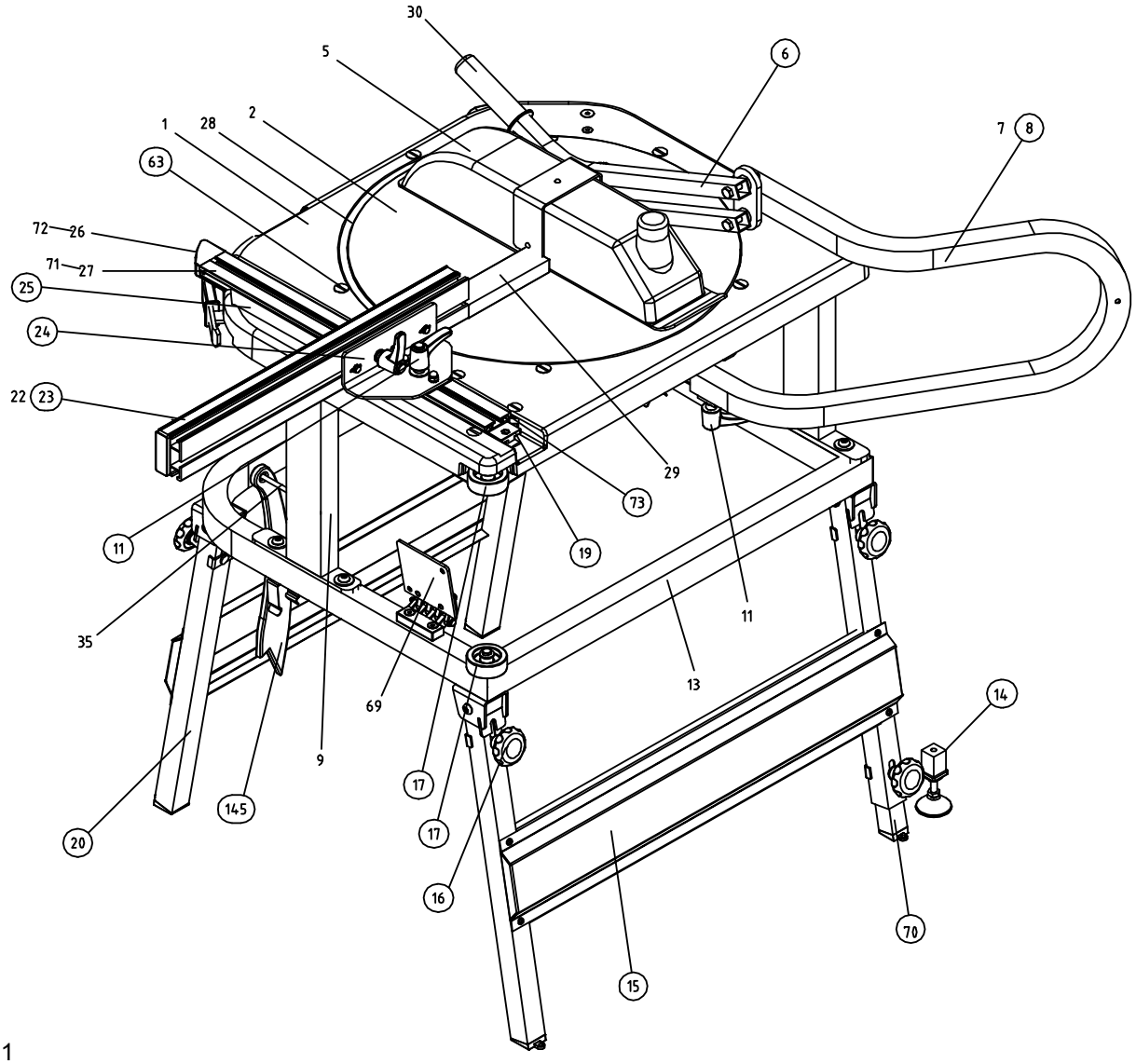
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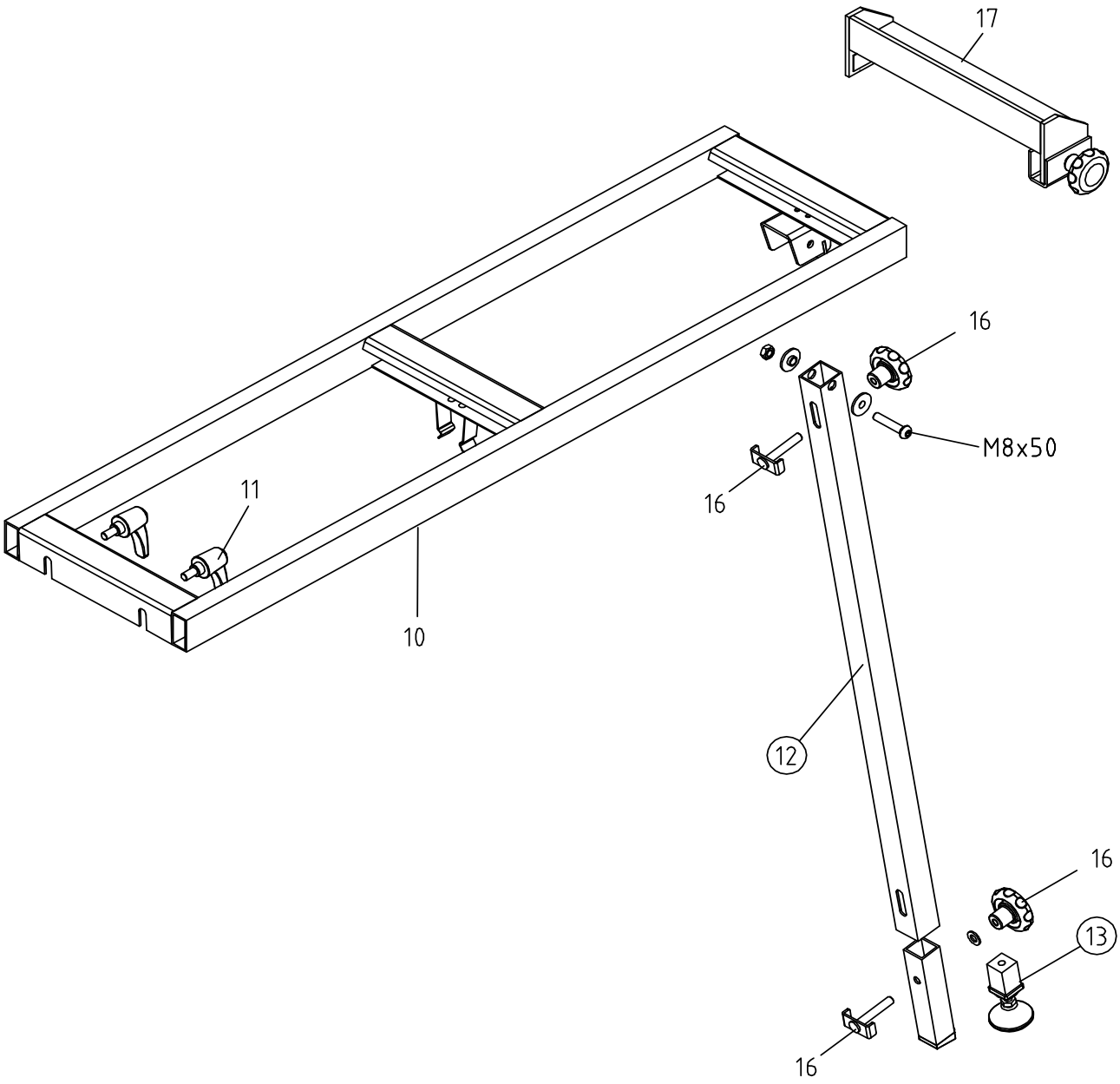
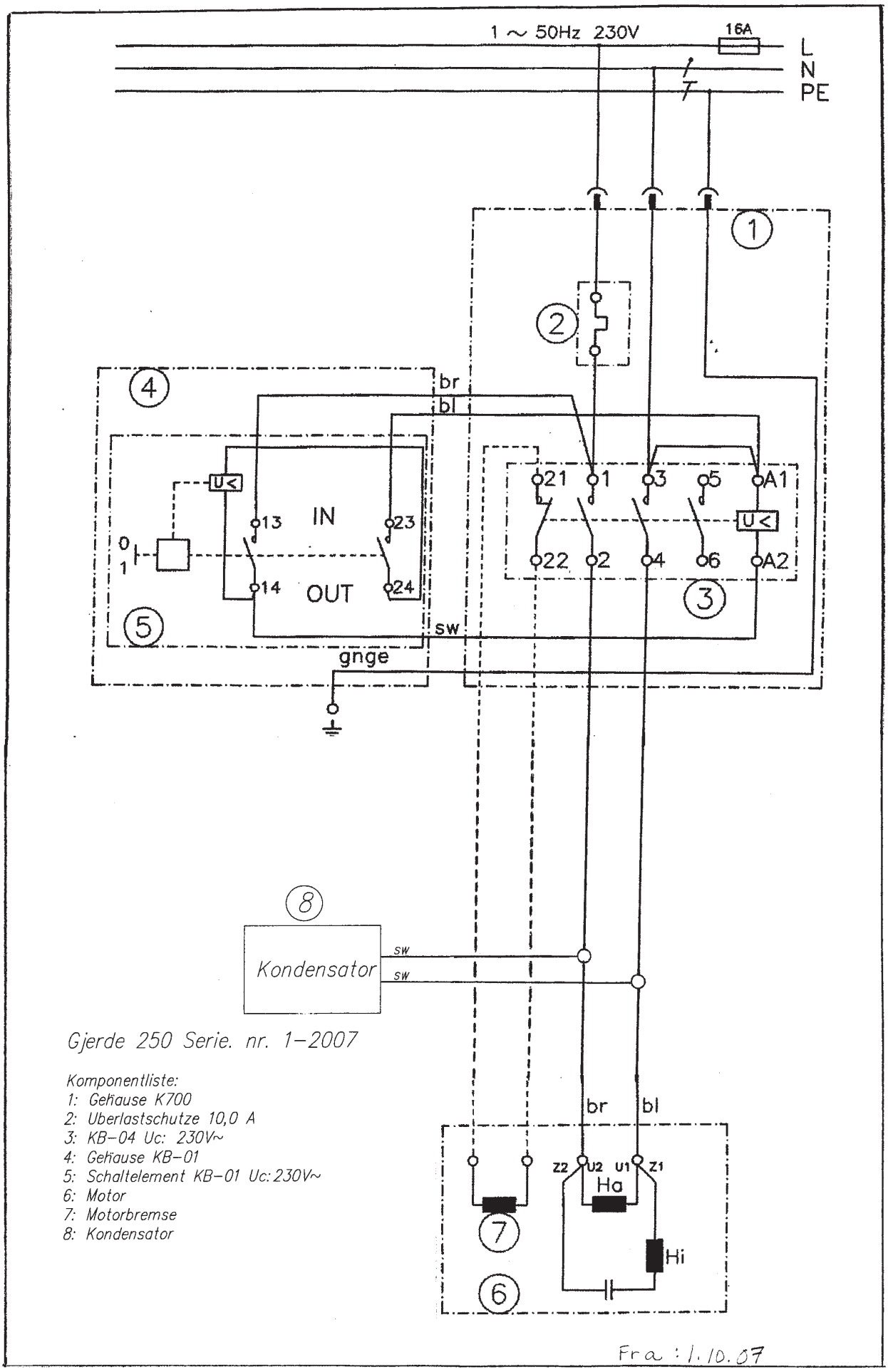
2011



2011

Ernex AS Spare Part List Tables 250

Pos.	Art.No.	Text
10	725 048	Frame f/alu. table
11	725 155	Locking handle M8x15
12	725 232	Leg, alu. table compl.
13	725 233	Foot compl. (1 pc. adj.)
16	725 209	Locking wheel
17	725 260	Length stop f/alu. table



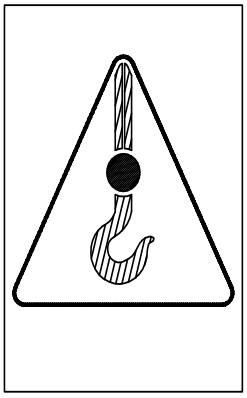
Gjerde 250 Serie. nr. 1–2007

Komponentliste:
1: Gehäuse K700
2: Uberlastschutze 10,0 A
3: KB–04 Uc: 230V~
4: Gehäuse KB–01
5: Schaltelement KB–01 Uc: 230V~
6: Motor
7: Motorbremse
8: Kondensator

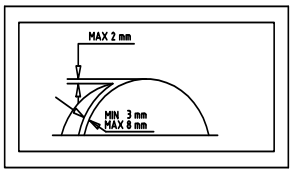
Fra : 1.10.07

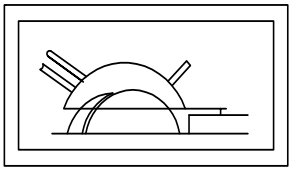
13. PRODUCT MARKS

Anvisning for heising.
Direction for lifting.
Anweisung über Hochhebung.

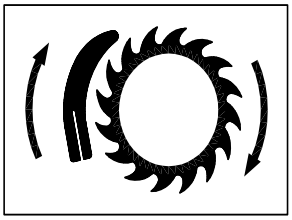


Justering av bladbeskytter og spaltekniv.
Adjustment of hood and riving knife.
Anweisung über Einstellung
von Schutzhaube u. Spaltkeil.



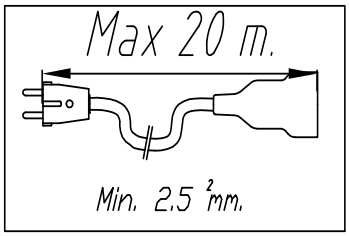


Rotasjonsretning.
Direction of rotation.
Anweisung über Drehrichtung.

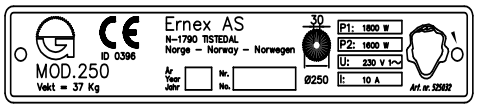


Anvisning for vern.
Direction for blade cover.
Anweisung über Sägeblattdeckel.

Anbefalt tilførselskabel.
Recommended extension of cord dim.
Empfehlung von Zuleitung Dim.



Typeskilt med anvisinger.
Type plate with info.
Kennzeichen Schild mit Anweisung.



Skjema 169

Ernex AS

Gjerde 250

SAMSVARSERKLÆRING
CONFORMITY DECLARATION
KONFORMITÄTSERKLÄRUNG
KONFORMITETSINTYG
DICHIARAZIONE DI CONFOMITA

Fabrikant – Manufacturer – Hersteller – Produttore: **Ernex AS**
Adresse – Adress – Anschrift – Indirizzo: **1792 Tistedal**

Erklærer herved at :
Maskin: Mod.: **Gjerde 250** **Nr.: ……**

Som er omfattet av denne erklæring, er fremstilt i overensstemmelse med
Rådets direktiv 2006/42/EF, 2005/95/EF og EN 1870-5:2002.
Det bemyndigede organ: Dansk Teknologisk Institut, Århus, identifikasjons Nr.: 0396,
har prøvet denne maskinen i følge typeattest Nr. TI-09-MD-0308.

We hereby declare that:
Machine: Mod.: **Gjerde 250** **Nr.: ……**

Which is covered by this declaration is manufactured in conformity with
the Commission's instructions 2006/42/EF, 2005/95/EF and EN 1870-5:2002.
The notified body: Dansk Teknologisk Institut, Aarhus, identification No.: 0396,
has examined this machine according to approval certificate No. TI-09-MD-0308.

Erklärt hiermit :
Die Maschine: Mod.: **Gjerde 250** **Nr.: ……**

Die diese Erklärung betrifft wurde in konformität mit den Richtlinien vom
Rat der Europäischen Gemeinschaften 2006/42/EF, 2006/95/EF u. 1870-5:2002.
Notizierte Stelle: Dansk Teknologisk Institut, Århus, Identifikations Nr.: 0396,
hat diese Maschine geprüft, Bescheinigung durch das Typattest Nr. TI-09-MD-0308.

Försäkrar härmed att :
Maskin: Mod.: **Gjerde 250** **Nr.: ……**

Vilken innefattas i denna deklaration, är tillverkad i överenstämmelse med
Maskindirektiv 2006/42/EF, 2006/95/EF och EN 1870-5:2002.
Bemyndigat organ: Dansk Teknologisk Institut, Aahus, identifikations Nr.: 0396,
vilket prövat denna maskin enl. Provningscertifikat Nr. TI-09-MD-0308.

Con la presente si dichiara che la :
Macchina: Mod.: **Gjerde 250** **N.: ……**

Oggetto della presente dichiarazione è prodotta in confomità alla
direttiva della Commissione 2006/42/EF, 2006/95/EF e EN 1870-5:2002.
L`ente notificato: Dansk Teknologisk Institut, Aarhus, N. di identificazione: 0396,
ha esaminato il macchinario come da certificato di approvazione N. TI-09-MD-0308.

Tistedal,…….
Jan Håkon Hansen

……..
Skjema nr. 137

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E-mail: kundservice@motek.se
www.motek.se

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E-mail: luna@luna.se
www.luna.se

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www.junget.dk

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www.mechelin-company.fi

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E-mail: brynja@brynja.is
www.brynja.is

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www.huellinghorst.de

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E-mail: uldis@mekotex.lv
www.mekotex.lv

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E-Mail: ernex@ernex.no - www.ernex.no